REMARKS

The present invention is a method for generating distributed applications for each level in a multi-level database environment; a method for generating an integrated configuration code in a multi-level database environment; a network device for generating distributed applications in each level in a multi-level environment; and a computer program product comprising program code downloadable from a server for carrying out a method for generating distributed applications for each level in a multi-level database.

The method for generating distributed applications for each level in a multi-level database environment of claim 1 comprises:

> receiving an integrated configuration code comprising code sections for all information required for generating an application in each of said levels;
> parsing all code sections in said integrated configuration code required for at least one level of said multi-level environment;
> extracting said parsed code sections for said at least one level; and
> converting said extracted code sections into level-specific application code for each extracted level.

The method for generating an integrated code in a multi-level database environment of claim 5 comprises:

> receiving at least one representation of a database table of said database;
> retrieving all meta-information of said database table represented by said least one representation from said database, said meta-information comprising information related to the contents of and additional information, about said at least one database table; and
> generating an integrated configuration code comprising code sections for all meta information retrieved from said database.

The network device for generating distributed applications for each level in a multi level environment of claim 6 comprises:

> a reception module for receiving an integrated configuration code comprising code sections for different levels of said multi level environment;
> a controller, being connected to said reception module, and being configured to parse, extract and convert code sections of said integrated configuration code into level-specific application code for each level;
> a user interface, connected to said controller, for revising said integrated configuration code; and
> a network module, connected to said controller, for transferring said level-specific application code to other devices in a network.

The Specification stands objected to regarding its format. The Specification has been amended to conform the Application to the accepted format for patent applications.

Claims 7-9 and 15-24 stand rejected under 35 USC § 112 second paragraph as being indefinite. Claims 7-9 and 15-24 have been canceled mooting the stated grounds of rejection. In this regard, it is noted that the second paragraph in the stated grounds of rejection under the second paragraph of 35 USC § 112 refers to claims 15-29 which reference to "29" is understood to be, in fact, a reference to claim "24" in view of the reference to claim 24 in all other portions of the rejections of the claims on grounds of indefiniteness.

Claims 7-8 and 15-24 stand rejected under 35 USC § 101 as being directed to non-statutory subject matter. This rejection is moot in view of the cancellation of these claims.

Claims 1-29 stand rejected under 35 USC § 103 as being unpatentable over the publication "Java Webstart" (Kim) in view of the "Deploying Software with JNLP and Java Webstart" (Zukowski). These grounds of rejection are traversed for the following reasons.

Each of independent claims 1, 5, and 10, respectively, as reproduced above, recites a method for generating distributed applications for each level in a multi-level database environment, a method for generating an integrated configuration code in a multi-level database environment and a network device for generating distributed applications in each level in a multi-level environment. It is therefore seen that the claims are limited to a multi-database environment or a multi-level environment.

On page 5 of the Office Action, the Examiner refers to generating an application in each of said levels to be the JAR files which are part of a distributed Java application. However, it is submitted that the JAR files referred to therein which are described in Kim pertain to a distributed Java application which does not contain or pertain to an architecture having multiple levels and in fact pertains to different code generations for the same application in different execution environments which does not meet the multi level environment limitations in a database or single system either pertaining to a database or in the same system. Therefore, Kim is deficient regarding any teachings to a multi level environment.

If the Examiner persists in the stated grounds of rejection by relying upon Kim, it is requested that he point out on the record how Kim is being interpreted to meet the foregoing multi level limitations in view of the foregoing comments. As may be

seen from the description of the JAR files, the downloading of an application from a Web server results in associated JAR files being downloaded to a local machine, but this does not meet the multi level limitations. See, for example, the bottom of page 7 of Kim.

On page 6 of the Office Action, the Examiner indicates that "Kim discloses the JNLP file as a 'integrated configuration XML file' for distributing Java application (Kim: Figure 8) but does not explicitly mention ***the distributed applications for each level in a multi-level database***." Zukowski is cited as showing "J2EE is a multi-tier environment (see p. 1 'Java 2 Platform', see p. 3, the last lines of the page), where J2EE includes multi-tiers database". While Zukowski does refer to the Java Webstart running on top of the Java 2 platform and providing access to the underlying security architecture, such disclosure does not suggest the claimed steps or components for each level in a multi level database or system as recited in the independent claims and therefore does not meet the stated deficiency of Kim.

According, if the proposed combination were made of Kim and Zukowski, the subject matter of the independent claims would not be achieved.

Moreover, it is submitted that the Examiner has not supplied any objective reasoning why the proposed combination would be made, and moreover, if the proposed combination were made, why the subject matter of the claims would be achieved since neither Kim nor Zukowski pertain to the multi level database environment or multi level environment as recited in the limitations of the claims.

In view of the foregoing Amendments and Remarks, it is submitted that each of the claims in the application is in condition for allowance. Accordingly, early allowance thereof is respectfully requested.

Please charge any shortage in the fees due in connection with the filing of this paper, to Deposit Account No. 01-2135 (1382.44662X00) and please credit any excess fees to such deposit account.

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS, LLP

/Donald E. Stout/
Donald E. Stout
Registration No. 26,422

DES/mlh
Telephone: (703) 312-6600
Facsimile: (703) 312-6666